

Crossley Farm Superfund Site

Priority Panel Presentation Vapor Intrusion Mitigation

2013



Background

- Site is solvent disposal areas on a farm and two resultant TCE ground water plumes underneath houses
- Drums of solvents brought to the Site from nearby industry during 1960's and 1970's
- Timeline: PADEP discovered ground water problem in 1983
NPL listing 1992
RI/FS 1994-2001
EPA Removal 1,200 buried drums and soil 1998
- Groundwater Plume
 - Trichloroethylene (TCE) main contaminant
 - Main plume almost 2 miles long, contaminated ground water near ground surface and discharges from springs (smaller plume also exists moving in different direction with topography)

Background

- OU-1 Point of Entry Treatment
 - ROD issued 1997; install at private wells impacted by plume
 - To date 53 systems installed at wells impacted by plume
- OU-2 Ground Water Plume
 - ROD issued 2001; pump and treat at contamination source area
 - ROD Amendment issued 2008; pump and treat to contain most contaminated portion of down gradient plume
 - Combo of ARRA and RA funding for pump and treat to contain plume; that portion of OU-2 substantially complete as of 2012 (treatment plant, extraction wells, piping etc)



Vapor Intrusion

- OU-3 Vapor Intrusion (VI)
 - ROD issued 2012; VI mitigation at 12 affected residences which overly the plume + more sampling
 - RD is complete at 12 residences
 - Additional sampling = 5 additional residences
 - VI mitigation set to begin in December 2013
 - **Exemption 5: DP**
 - More sampling this winter, but big change in number of residences requiring VI mitigation not expected

Additional information on VI Mitigation

- SSC at 99% Complete – will be signed by end of 2013
- PADEP will maintain mitigation systems (replace parts, annual visit)
- Resident- electric cost - ~\$5-15/month

Example #1 – Exemption 6 - PII

- Exemption 6 - PII

Exemption 6 - PII

Personal Identifiable Information

Summary

- Vapor intrusion happening now
- **Exemption 5: DP**